

MeBr Soil Gas Conc. vs. Time

Broadcast and Drip Treatment at 12" Depth Adjusted for Film Permeability

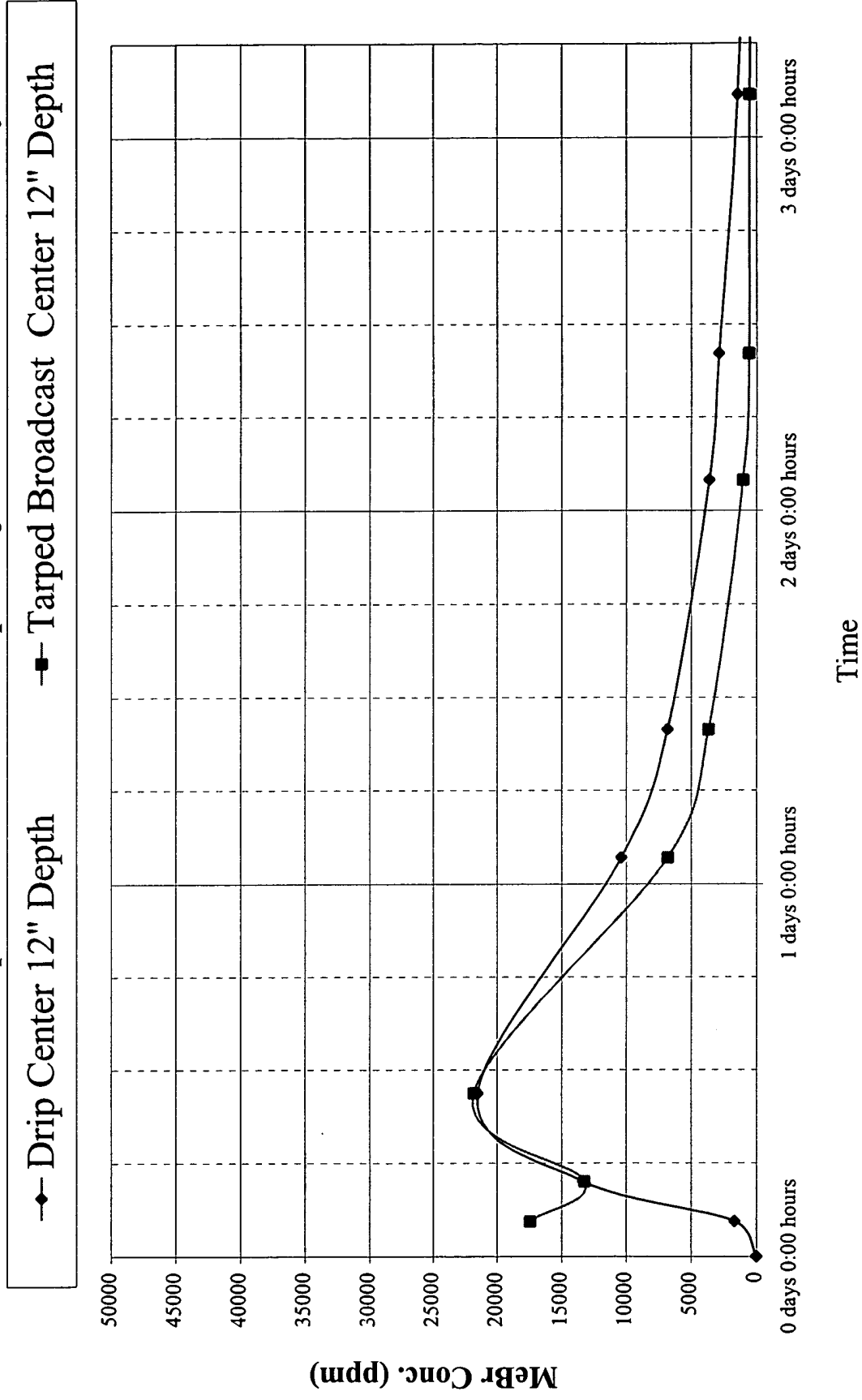


FIG. 1

MeBr Headspace Conc. vs. Time
Run #1 MeBr + ATLOX Surfactant + Water



16-03-2000 10:30:00

MeBr Headspace Conc. vs. Time

Run #2 MeBr + Water

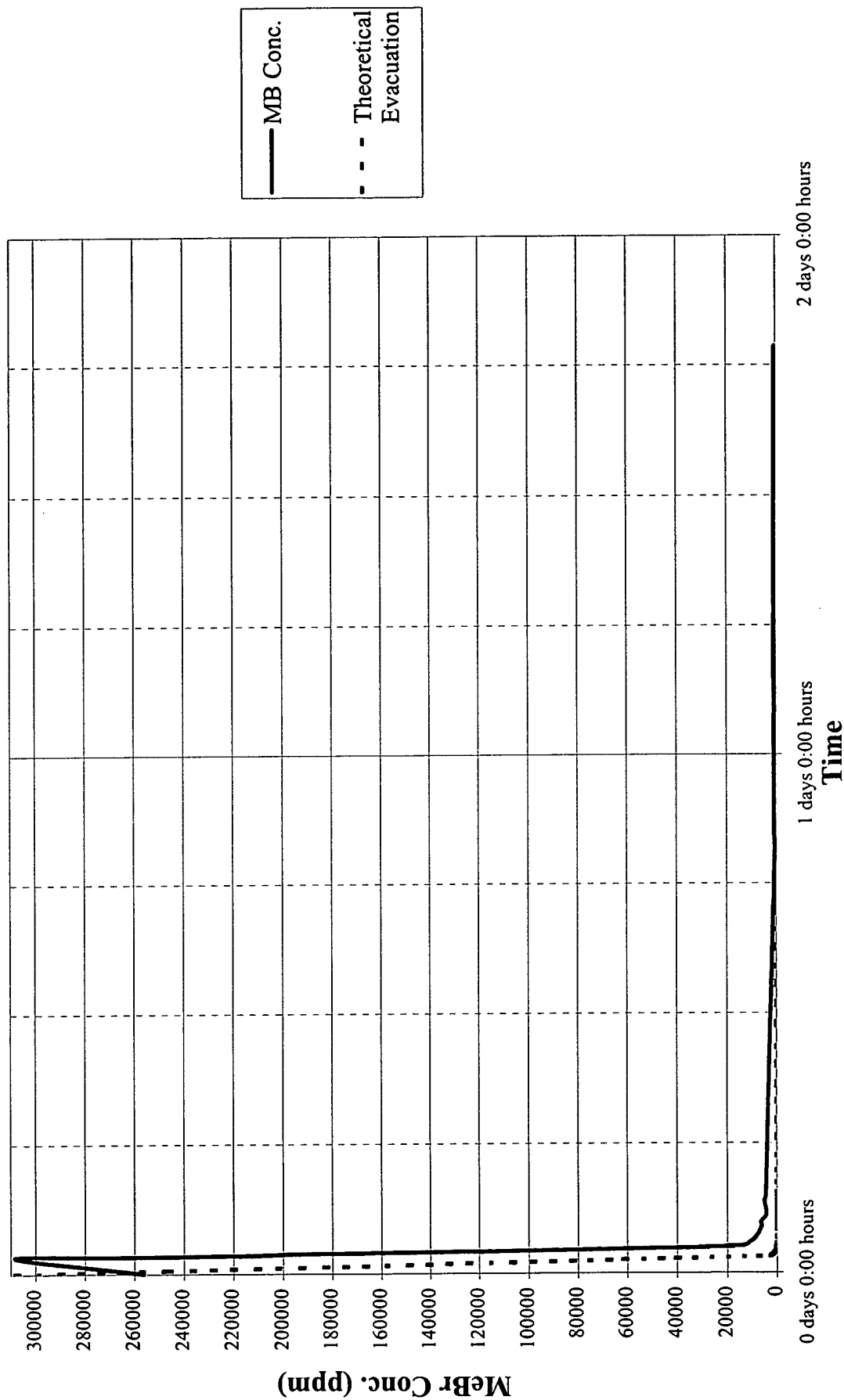
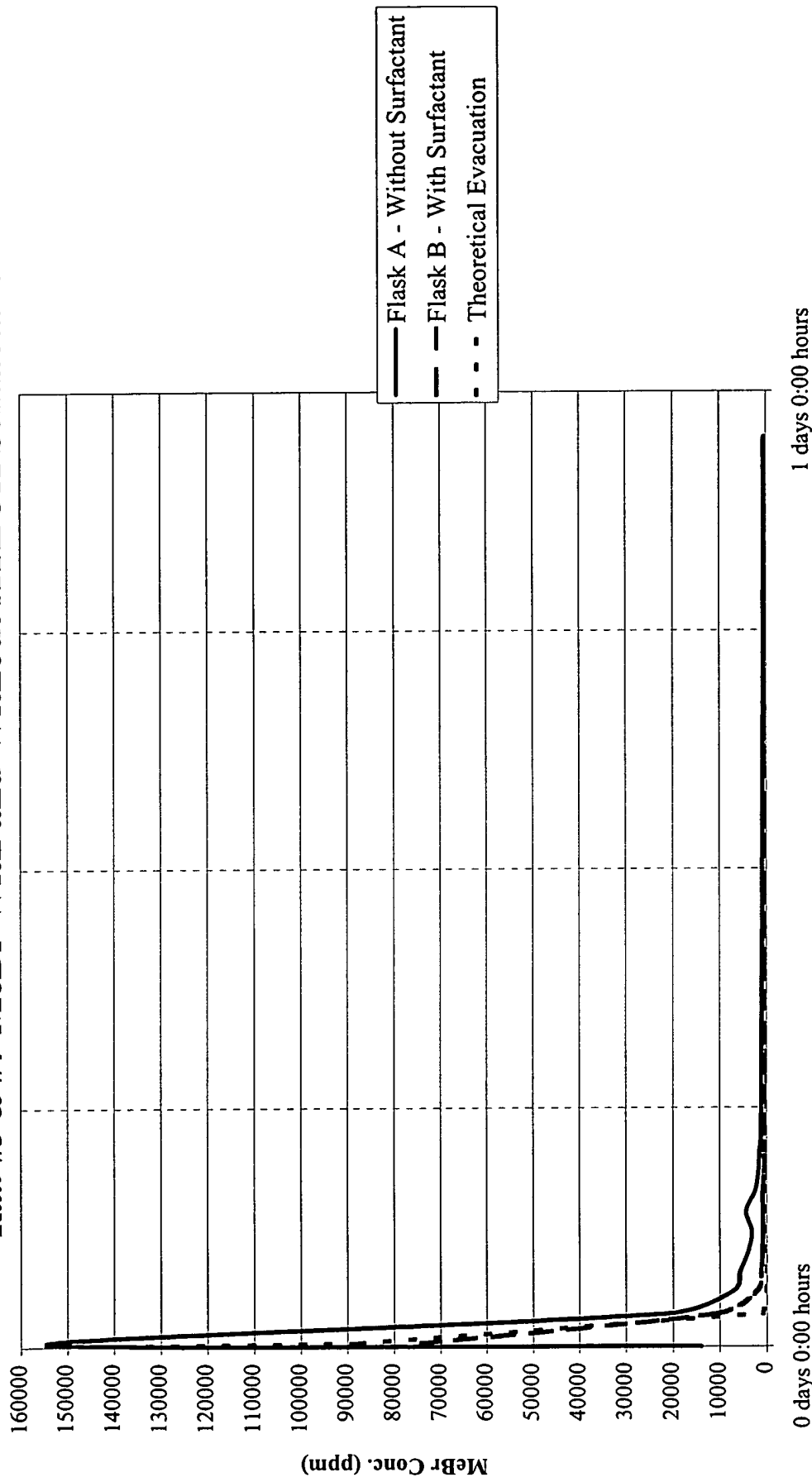


FIG. 2b

MeBr Headspace Conc. vs. Time
Run #3 & #4 MeBr With and Without ATLOX Surfactant



Time FLASK A had 2 mL of MeBr added, FLASK B had 0.5 mL added.

FIG. 2c

Treatment of Different Types of Tubing with Chloropicrin Formulation

Tubing Type	Immediate Rx	Wall Thickness After 15 Hours	Elasticity/Strength After 15 Hours	General Appearance Integrity After 15 Hours
Black Seamless Latex	None	No change	Maintained	No effect
FEP Teflon	None	No change	Maintained	No effect
Nalgene 860 Tissue Culture Grade	None	No change	Maintained	Sticky
Manosilt	None	No change	Maintained	No effect
Tygon R3603	None	Reduced thickness	Reduced slightly	Appeared melted
Nalgene 180 Premium PVC	None	Reduced thickness	Reduced slightly	Slightly opaque, appeared melted

FIG. 3

De

§ 33% extraction efficiency, measured values multiplied by 3

□ No counts were obtained for Ring nematode statistical analysis.

FIG. 4

Chloropicrin EC - Lab Tests for Weed Seed Mortality
PIGWEEED

Weed Seed: <i>Amaranthus retroflexus</i>		Treatment Date = 10/28/1999		Number of Seeds/Dish = 100		Seed Germination Counts												(% Mortality)											
		Date of Count = 11/05/1999				Date of Count = 11/09/1999				Elapsed Time from Treatment = 8 Days				Elapsed Time from Treatment = 12 Days				1st Count at 8 Days				2nd Count at 12 Days				% Mortality Above Control			
Seed Age	Treatment	Treatment Solution	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Mean	Mean					
NEW SEED	Control 0 ppm, 0% Emulsifier		26	29	15	20	75	66	55	75	74	71	85	80	78	25	34	45	25	89%	84%	79%	68%	78%	32%	0%			
NEW SEED	0 ppm, 5% Emulsifier		13	9	10	14	15	16	21	32	87	91	90	86	89	85	79	88	85	89%	84%	79%	68%	89%	79%	47%			
NEW SEED	0 ppm, 50% Emulsifier		6	2	12	4	10	4	19	6	94	98	88	96	94	90	96	81	90	90%	96%	81%	94%	94%	90%	58%			
NEW SEED	500 ppm, 5% Emulsifier		0	3	1	4	0	3	1	4	100	97	99	96	98	100	97	99	99	98%	97%	99%	96%	98%	98%	66%			
NEW SEED	500 ppm, 50% Emulsifier		0	2	0	2	3	6	3	7	7	98	100	98	76	97	94	97	93	97%	94%	97%	93%	95%	63%				
NEW SEED	1000 ppm, 5% Emulsifier		4	1	1	0	9	2	1	1	96	99	99	100	99	91	98	99	99	91%	98%	99%	99%	97%	65%				
NEW SEED	1000 ppm, 50% Emulsifier		0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100%	100%	100%	100%	100%	68%				
OLD SEED	Control 0 ppm, 0% Emulsifier																												
OLD SEED	0 ppm, 5% Emulsifier																												
OLD SEED	0 ppm, 50% Emulsifier																												
OLD SEED	500 ppm, 5% Emulsifier																												
OLD SEED	500 ppm, 50% Emulsifier																												
OLD SEED	1000 ppm, 5% Emulsifier																												
OLD SEED	1000 ppm, 50% Emulsifier																												

NEW SEED

Anova: Single Factor

SUMMARY					
Row	Groups	Count	Sum	Average	Variance
Row 1		4	1.28	0.3225	0.009025
Row 2		4	3.16	0.79	0.006667
Row 3		4	3.61	0.9025	0.004425
Row 4		4	3.92	0.98	0.003333
Row 5		4	3.81	0.9525	0.000425
Row 6		4	3.87	0.9675	0.001417
Row 7		4	4	1	0

ANOVA					
Source of Variation	SS	df	MS	F	P-value
Between Groups	1.3926	6	0.2321	74.6416539	4.547E-13
Within Groups	0.0653	21	0.0031085		5.8607827
Total	1.4579	27			

FIG. 5a

% Mortality of New Weed Seeds Over Control Pigweed

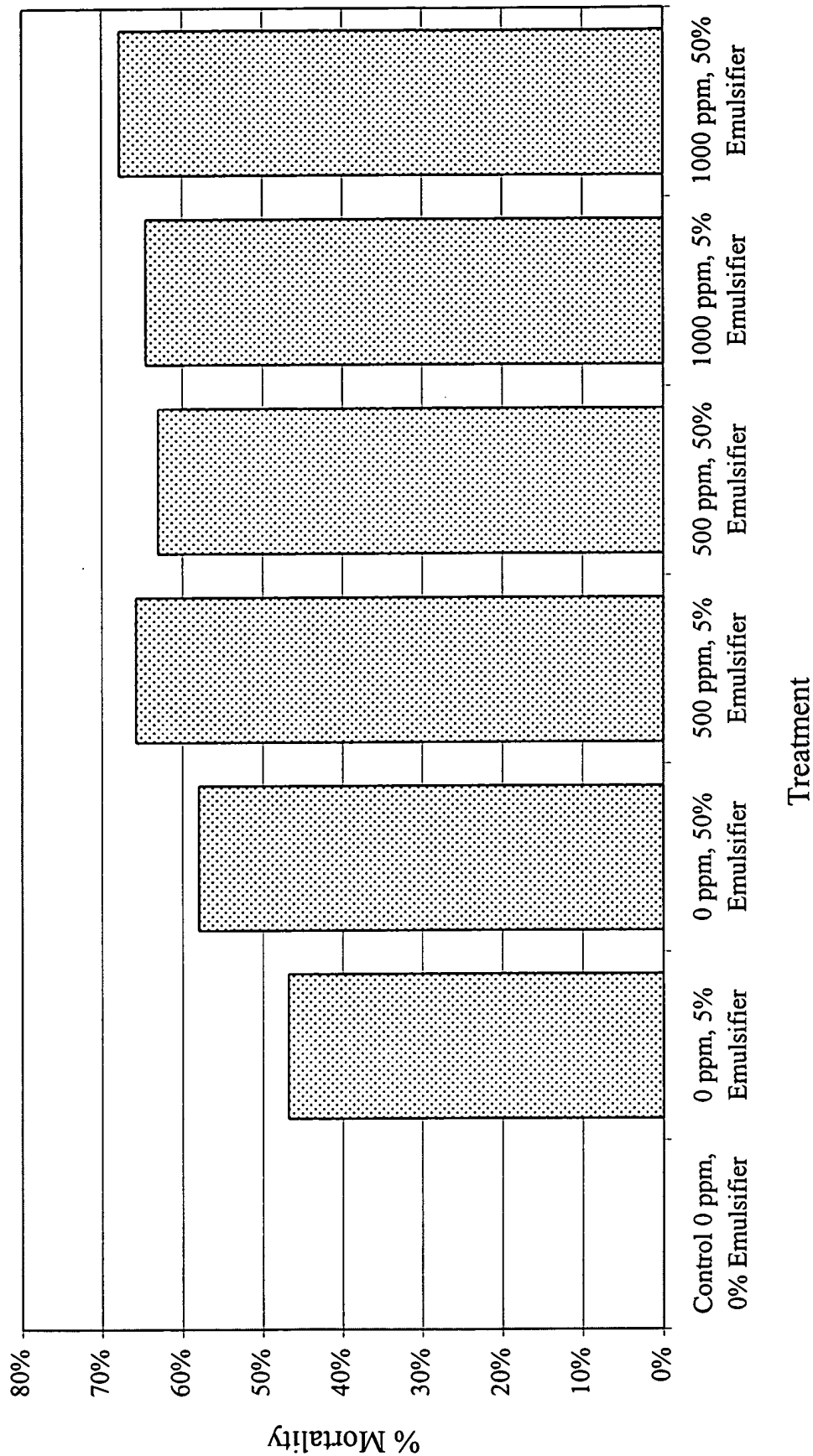


FIG. 5b

Chloropicrin EC - Lab Tests for Weed Seed Mortality

WHITE SWEET CLOVER

Weed Seed: *Melilotus alba*

Treatment Date = 10/28/1999 Number of Seeds/Dish = 100

Treatment		Seed Germination Counts										(% Mortality)										% Mortality Above Control			
		Date of Count = 11/05/1999					Date of Count = 11/09/1999					1st Count at 8 Days					2nd Count at 12 Days								
		Elapsed Time from Treatment = 8 Days					Elapsed Time from Treatment = 12 Days					Rep 1Rep 2Rep 3Rep 4					Rep 1Rep 2Rep 3Rep 4								
Seed Age	Treatment Solution	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Mean			
NEW SEED	Control 0 ppm, 0% Emulsifier	4	11	15	6	4	11	15	6	96%	89%	85%	94%	91%	96%	89%	85%	94%	91%	96%	89%	85%	94%	91%	0%
NEW SEED	0 ppm, 5% Emulsifier	10	7	3	9	10	7	3	9	90%	93%	97%	91%	93%	90%	93%	97%	91%	93%	90%	93%	97%	91%	93%	2%
NEW SEED	0 ppm, 50% Emulsifier	5	4	7	5	6	4	7	5	95%	96%	93%	95%	95%	94%	96%	93%	95%	95%	94%	96%	93%	95%	95%	4%
NEW SEED	500 ppm, 5% Emulsifier	5	3	4	1	5	3	6	2	95%	97%	96%	99%	97%	95%	97%	94%	98%	95%	97%	94%	95%	96%	5%	
NEW SEED	500 ppm, 50% Emulsifier	5	2	1	2	7	2	1	5	95%	98%	99%	98%	99%	93%	98%	99%	95%	95%	98%	96%	99%	95%	96%	5%
NEW SEED	1000 ppm, 5% Emulsifier	1	2	3	0	1	4	3	0	99%	98%	97%	100%	99%	99%	96%	97%	100%	99%	96%	97%	100%	98%	7%	
NEW SEED	1000 ppm, 50% Emulsifier	0	2	0	3	0	13	1	5	100%	98%	100%	97%	97%	100%	87%	99%	95%	95%	100%	87%	99%	95%	95%	4%
OLD SEED	Control 0 ppm, 0% Emulsifier	15	11	4	9	30	25	11	27	85%	89%	96%	91%	90%	70%	75%	89%	73%	77%	70%	75%	89%	73%	77%	-3%
OLD SEED	0 ppm, 5% Emulsifier	5	7	24	33	8	8	26	39	95%	93%	76%	67%	83%	92%	92%	74%	61%	80%	92%	92%	74%	61%	80%	0%
OLD SEED	0 ppm, 50% Emulsifier	4	10	13	18	6	12	24	27	96%	90%	87%	82%	89%	94%	88%	76%	73%	83%	94%	87%	76%	73%	83%	3%
OLD SEED	500 ppm, 5% Emulsifier	7	2	3	9	7	2	5	14	93%	98%	97%	91%	95%	93%	98%	95%	86%	93%	93%	98%	95%	86%	93%	13%
OLD SEED	500 ppm, 50% Emulsifier	11	7	3	5	23	15	6	9	89%	93%	97%	95%	94%	75%	85%	94%	91%	86%	75%	85%	94%	91%	86%	7%
OLD SEED	1000 ppm, 5% Emulsifier	23	3	0	12	23	3	0	12	77%	97%	100%	88%	91%	100%	97%	100%	88%	91%	77%	97%	100%	88%	91%	11%
OLD SEED	1000 ppm, 50% Emulsifier	0	12	3	16	0	18	4	26	100%	98%	97%	84%	92%	100%	82%	96%	74%	88%	100%	82%	96%	74%	88%	8%

NEW SEED

Anova: Single Factor

Groups	Count	Sum	Average	Variance
Row 1	4	3.84	0.96	0.00246667
Row 2	4	3.71	0.9275	0.00095833
Row 3	4	3.78	0.945	0.00016667
Row 4	4	3.84	0.96	0.00033333
Row 5	4	3.85	0.9625	0.00075833
Row 6	4	3.92	0.98	0.00033333
Row 7	4	3.81	0.9525	0.00049167

Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	0.0130857	6	0.002181	1.78431829	0.1489903	2.5727116
Within Groups	0.025525	21	0.0012155			
Total	0.0386107	27				

OLD SEED

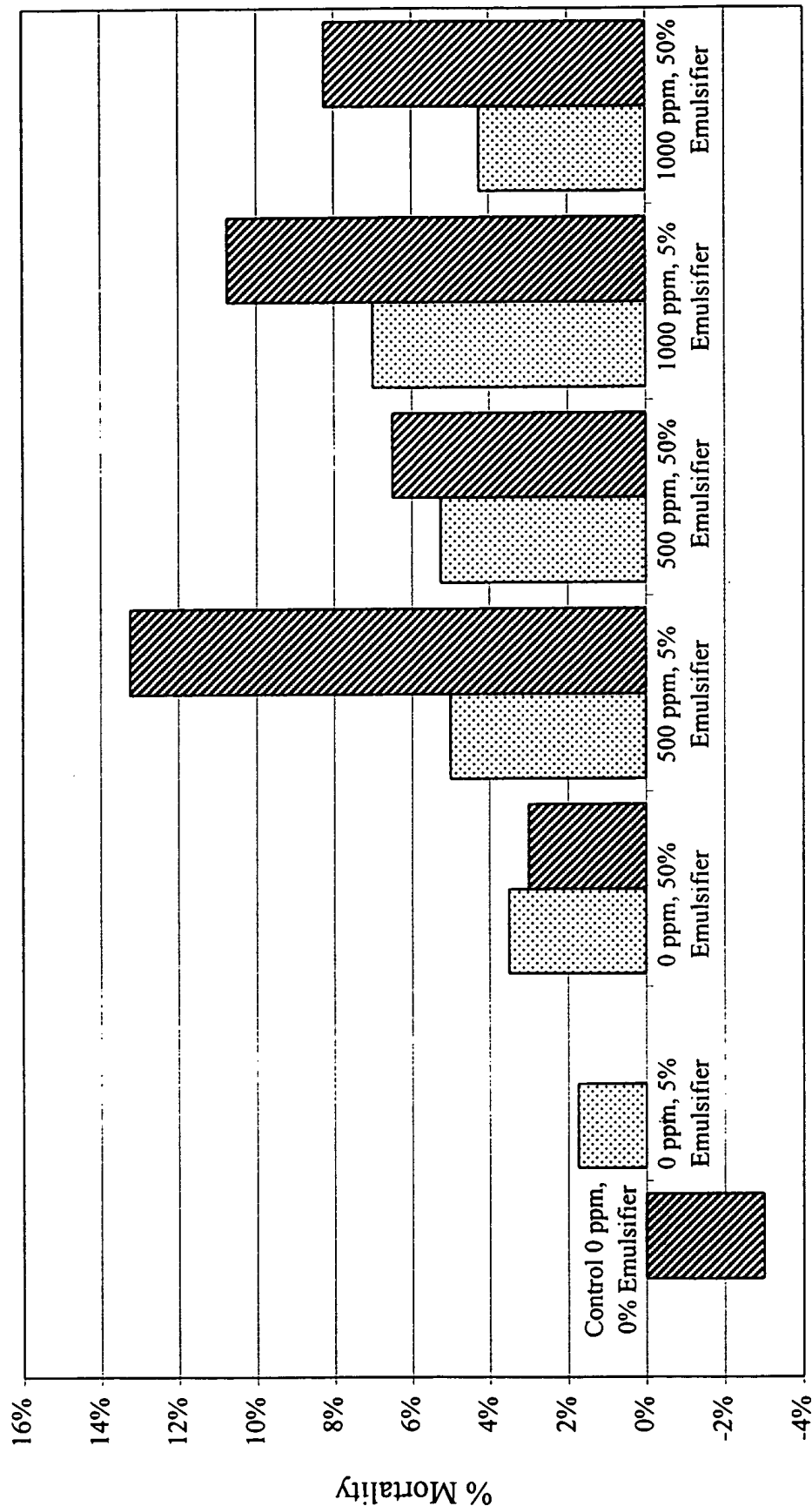
Anova: Single Factor

Groups	Count	Sum	Average	Variance
Row 1	4	3.07	0.7675	0.00709167
Row 2	4	3.18	0.7975	0.022825
Row 3	4	3.31	0.8275	0.006825
Row 4	4	3.72	0.93	0.0028
Row 5	4	3.45	0.8625	0.007025
Row 6	4	3.62	0.905	0.0107
Row 7	4	3.52	0.88	0.01460667

Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	0.081971	6	0.013662	1.276681017	0.30875	2.572712
Within Groups	0.2242	21	0.010676			
Total	0.306171	27				

FIG. 6a

% Mortality of New Weed Seeds Over Control **White Sweet Clover**



Treatment

FIG. 6b

Chloropicrin EC - Lab Tests for Weed Seed Mortality
WILD MUSTARD

Weed Seed: <i>Brassica kaber</i>		Treatment Date = 10/28/1999		Number of Seeds/Dish = 100															
Treatment		Seed Germination Counts								(% Mortality)									
		Date of Count = 11/05/1999				Date of Count = 11/09/1999				1st Count at 8 Days				2nd Count at 12 Days					
		Elapsed Time from Treatment = 8 Days				Elapsed Time from Treatment = 12 Days													
Seed Age	Treatment Solution	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	% Mortality Above Control	
NEW SEED	Control 0 ppm, 0% Emulsifier	35	38	40	33	60	51	49	54	65%	62%	60%	67%	64%	40%	49%	51%	46%	0%
NEW SEED	0 ppm, 5% Emulsifier	34	29	32	28	80	78	75	79	66%	71%	68%	72%	69%	20%	22%	23%	21%	-25%
NEW SEED	0 ppm, 50% Emulsifier	28	31	29	32	81	77	70	82	72%	69%	71%	68%	70%	19%	23%	30%	18%	-24%
NEW SEED	500 ppm, 5% Emulsifier	34	16	35	36	82	72	91	88	66%	84%	65%	64%	70%	18%	28%	9%	12%	-30%
NEW SEED	500 ppm, 50% Emulsifier	40	26	10	24	83	76	80	85	60%	74%	90%	76%	75%	17%	24%	20%	15%	-28%
NEW SEED	1000 ppm, 5% Emulsifier	30	31	18	22	81	80	70	76	70%	69%	82%	78%	75%	19%	20%	30%	24%	-23%
NEW SEED	1000 ppm, 50% Emulsifier	31	11	3	41	36	13	12	41	69%	89%	97%	59%	79%	64%	87%	88%	59%	28%
OLD SEED	Control 0 ppm, 0% Emulsifier	0	1	0	1	0	1	0	1	100%	99%	100%	99%	100%	100%	99%	100%	99%	0%
OLD SEED	0 ppm, 5% Emulsifier	2	2	0	1	2	2	0	1	98%	98%	100%	99%	99%	98%	98%	100%	99%	-1%
OLD SEED	0 ppm, 50% Emulsifier	1	0	0	1	1	0	0	1	99%	100%	100%	99%	100%	99%	100%	100%	99%	0%
OLD SEED	500 ppm, 5% Emulsifier	2	0	0	0	2	0	0	0	98%	100%	100%	100%	100%	98%	100%	100%	100%	0%
OLD SEED	500 ppm, 50% Emulsifier	3	2	3	0	3	2	3	0	97%	98%	97%	100%	98%	97%	98%	97%	100%	-2%
OLD SEED	1000 ppm, 5% Emulsifier	0	0	0	0	0	0	0	0	100%	100%	100%	100%	100%	100%	100%	100%	100%	0%
OLD SEED	1000 ppm, 50% Emulsifier	0	0	0	0	0	0	0	0	100%	100%	100%	100%	100%	100%	100%	100%	100%	0%

NEW SEED

Anova: Single Factor

SIGNIFICANT DIFFERENCE @ 95%

SUMMARY						
		Groups	Count	Sum	Average	Variance
Row 1			4	1.88	0.465	0.0023
Row 2			4	0.88	0.22	0.000466667
Row 3			4	0.9	0.225	0.002966667
Row 4			4	0.67	0.1675	0.007025
Row 5			4	0.78	0.19	0.001533333
Row 6			4	0.93	0.2325	0.002491667
Row 7			4	2.98	0.745	0.022966667

ANOVA

Source of Variation		SS	df	MS	F	P-value	F crit
Between Groups		1.0739357	6	0.17898953	31.52012578	1.865E-09	3.8117491
Within Groups		0.11825	21	0.00563095			
Total		1.1931857	27				

OLD SEED

Anova: Single Factor

SIGNIFICANT DIFFERENCE @ 95%

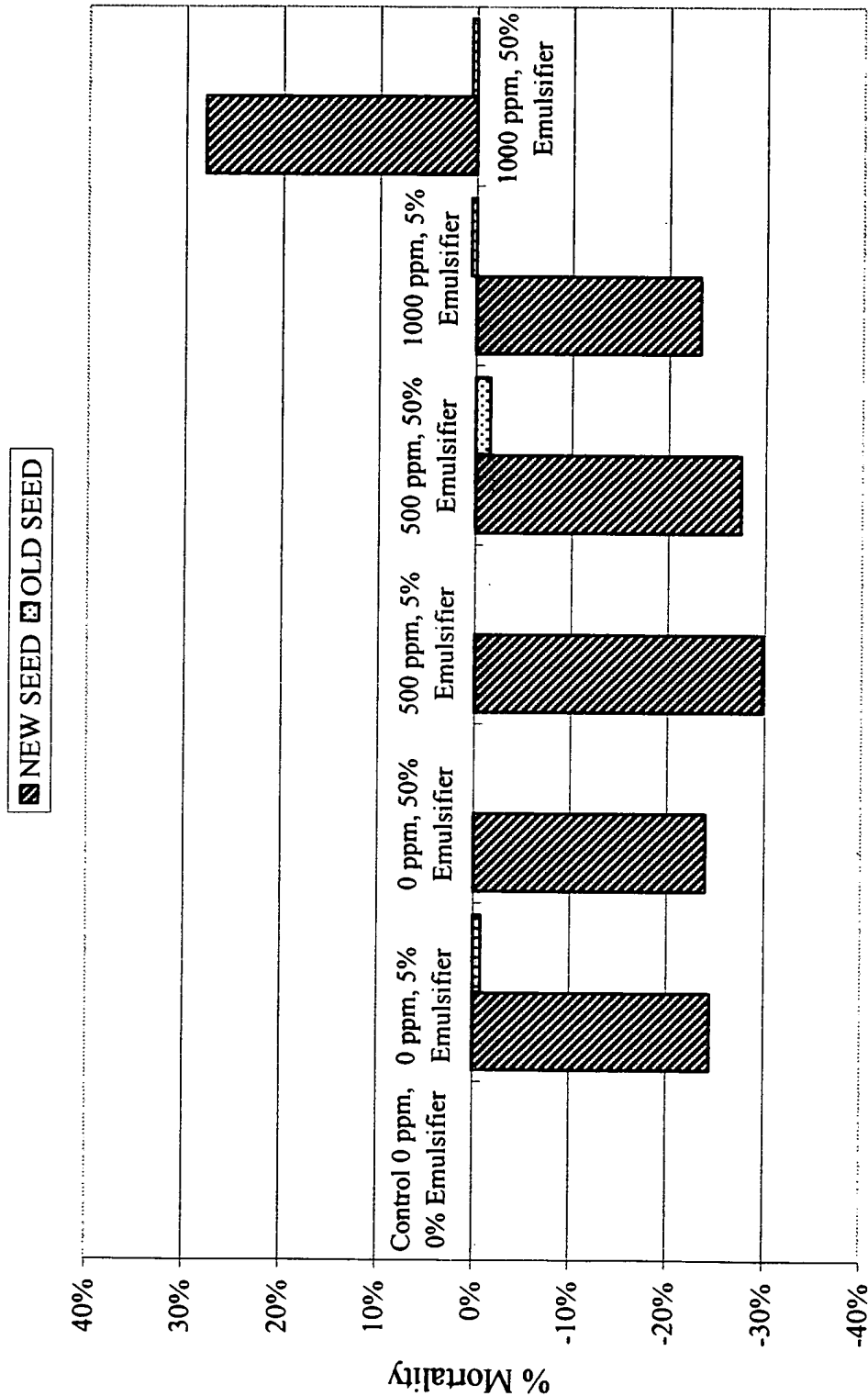
SUMMARY		Groups	Count	Sum	Average	Variance
Row 1		4	3.98	0.995	3.3333E-05	
Row 2		4	3.95	0.9875	9.16667E-05	
Row 3		4	3.98	0.995	3.3333E-05	
Row 4		4	3.98	0.995	1E-04	
Row 5		4	3.92	0.98	0.0002	
Row 6		4	4	1	0	
Row 7		4	4	1	0	

ANOVA

Source of Variation		SS	df	MS	F	P-value	F crit
Between Groups		0.001238	6	0.000206	3.145454545	0.023238	2.572712
Within Groups		0.001375	21	6.55E-05			
Total		0.002611	27				

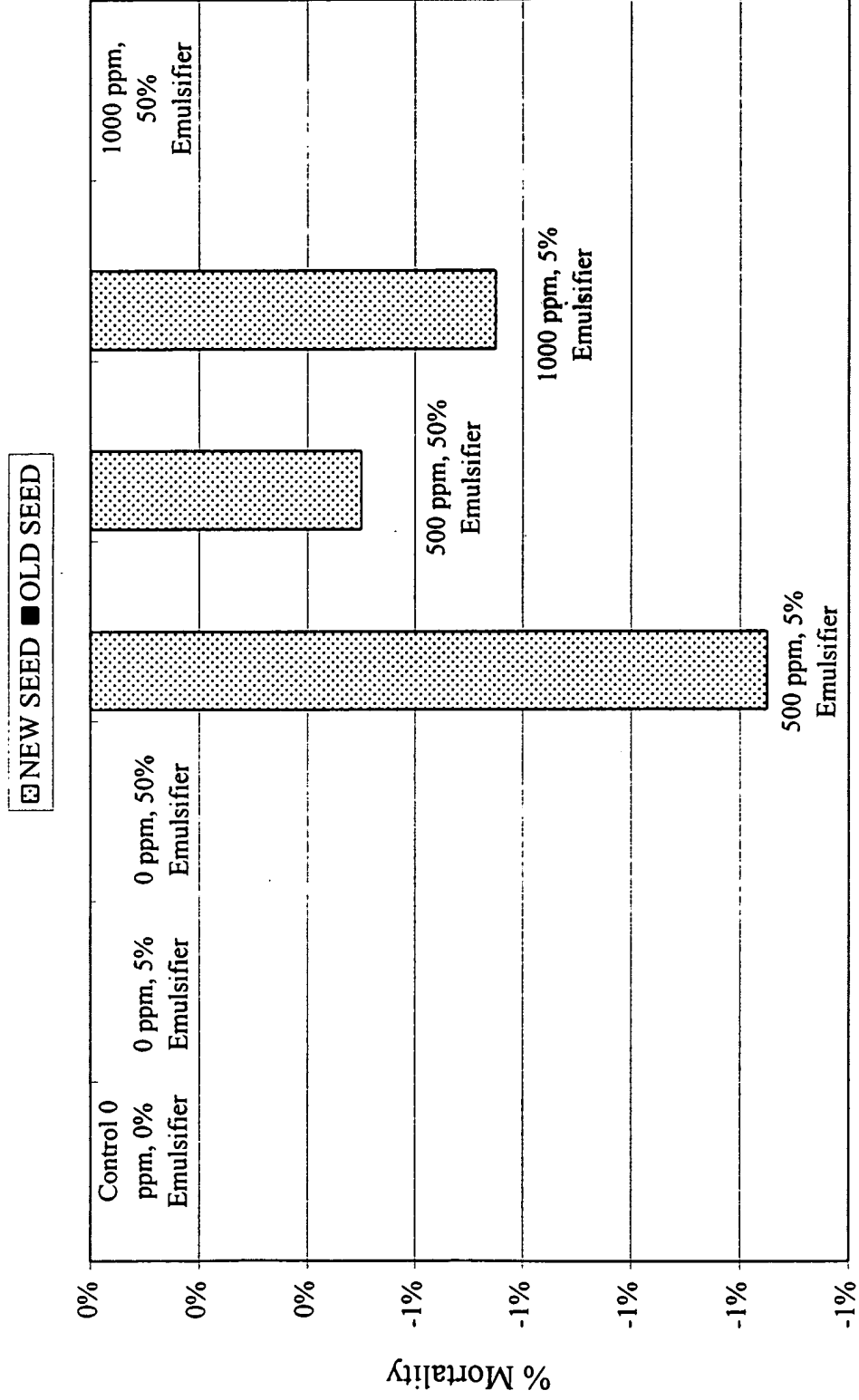
FIG. 7a

% Mortality of New Weed Seeds Over Control Wild Mustard



Treatment
FIG. 7b

% Mortality of New Weed Seeds Over Control Yellow Nutgrass



Treatment

FIG. 8b

% Mortality of New Weed Seeds Over Control Barnyard Grass

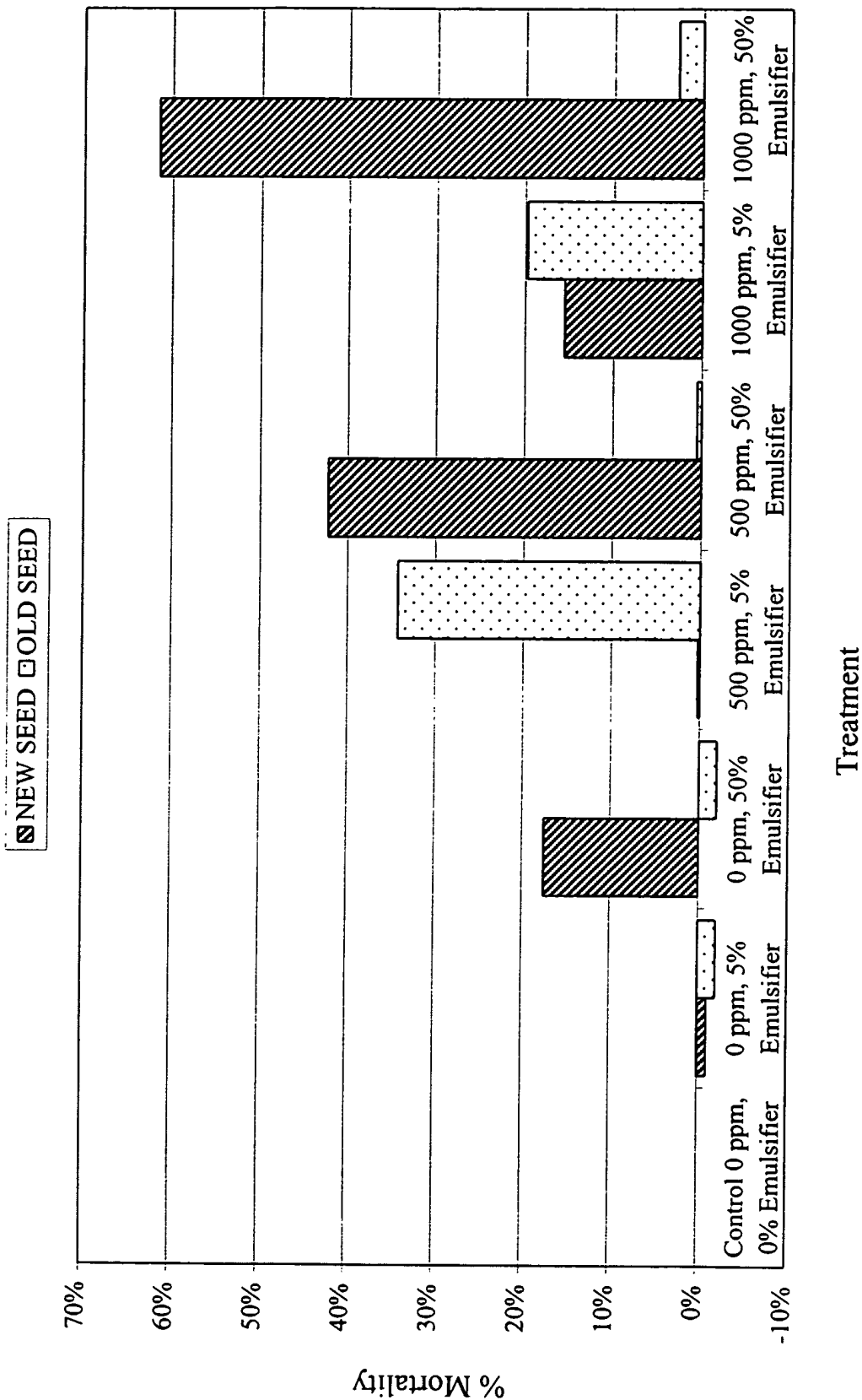


FIG. 10b

Figure 1. Schematic representation of the experimental design. The subjects were divided into two groups: the control group (CG) and the experimental group (EG). The CG was divided into two subgroups: the control group (CG) and the control group (CG). The EG was divided into two subgroups: the experimental group (EG) and the experimental group (EG). The subjects were divided into two groups: the control group (CG) and the experimental group (EG). The CG was divided into two subgroups: the control group (CG) and the control group (CG). The EG was divided into two subgroups: the experimental group (EG) and the experimental group (EG).

Number of Seeds/Dish = 100

Treatment Date = 10/28/1999

SIGNIFICANT DIFFERENCE @ 99%

OLD SEED

SIGNIFICANT DIFFERENCE @ 99%

NEW SEED

Anova: Single Factor

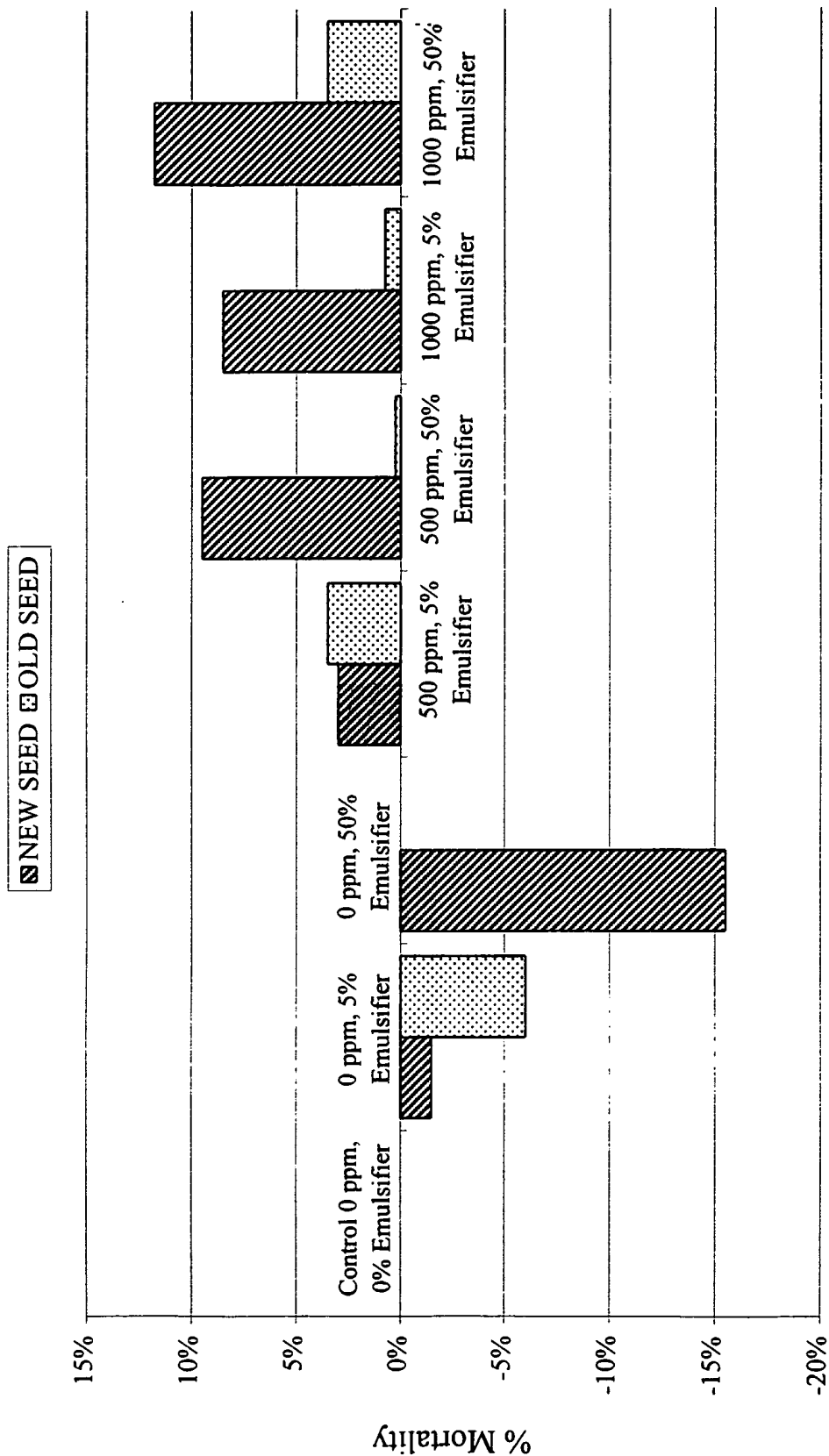
SUMMARY						
Groups	Count	Sum	Average	Variance		
Row 1	4	3.5	0.875	0.0041		
Row 2	4	3.44	0.86	0.00246667		
Row 3	4	2.88	0.72	0.00313333		
Row 4	4	3.52	0.88	0.01176667		
Row 5	4	3.88	0.97	0.0002		
Row 6	4	3.84	0.96	0.00246667		
Row 7	4	3.87	0.9675	0.000225		

ANOVA

Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	0.20695	6	0.0344917	9.89770783	3.158E-05	3.8117491
Within Groups	0.073075	21	0.0034786			
Total	0.279725	27				

FIG. 9a

% Mortality of New Weed Seeds Over Control Yellow Sweet Clover



Treatment
FIG. 9b

Chloropicrin EC - Lab Tests for Weed Seed Mortality

BARNYARD GRASS
Weed Seed: Echinochloa crusgalli

Treatment Date = 10/28/1999 Number of Seeds/Dish = 100

Seed Age		Treatment Solution	Seed Germination Counts												(% Mortality)												% Mortality Above Control		
			Date of Count = 11/05/1999 Elapsed Time from Treatment = 8 Days						Date of Count = 11/09/1999 Elapsed Time from Treatment = 12 Days						1st Count at 8 Days				2nd Count at 12 Days										
			1st Count				2nd Count				1st Count				2nd Count				1st Count				2nd Count						
Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Mean	
NEW SEED	Control 0 ppm, 0% Emulsifier	100	100	88	41	100	100	100	94	82	0%	0%	12%	59%	18%	0%	6%	0%	0%	0%	18%	0%	0%	0%	0%	0%	0%	0%	6%
NEW SEED	0 ppm, 5% Emulsifier	10	98	97	99	80	100	100	100	100	90%	90%	2%	3%	1%	20%	0%	0%	0%	0%	24%	0%	0%	0%	0%	0%	0%	5%	
NEW SEED	0 ppm, 50% Emulsifier	95	100	15	90	97	100	15	94	94	5%	0%	85%	10%	25%	3%	85%	6%	85%	6%	24%	3%	85%	6%	18%	0%	0%		
NEW SEED	500 ppm, 5% Emulsifier	43	90	89	79	100	97	90	88	88	57%	10%	11%	21%	25%	0%	3%	10%	12%	6%	10%	0%	3%	10%	0%	0%	0%		
NEW SEED	500 ppm, 50% Emulsifier	31	6	15	100	59	23	25	100	69%	94%	85%	0%	62%	41%	77%	75%	0%	48%	42%	0%	41%	77%	75%	0%	48%	42%		
NEW SEED	1000 ppm, 5% Emulsifier	24	89	95	98	31	93	95	95	95%	95%	5%	2%	49%	69%	7%	5%	69%	5%	22%	16%	69%	7%	5%	22%	16%	16%		
NEW SEED	1000 ppm, 50% Emulsifier	42	6	12	32	81	8	7	34	58%	94%	88%	68%	77%	19%	92%	66%	19%	92%	66%	68%	19%	92%	66%	68%	62%	62%		
		Date of Count = 11/08/1999																											
		Elapsed Time from Treatment = 11 Days																											
OLD SEED	Control 0 ppm, 0% Emulsifier	80	95	100	100	95	97	100	100	100	20%	5%	0%	0%	6%	0%	3%	0%	0%	0%	2%	0%	0%	0%	0%	0%	0%	0%	
OLD SEED	0 ppm, 5% Emulsifier	100	100	100	100	100	100	100	100	100	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%		
OLD SEED	0 ppm, 50% Emulsifier	97	93	99	100	100	100	100	100	100	3%	7%	1%	0%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%		
OLD SEED	500 ppm, 5% Emulsifier	50	93	95	9	50	93	95	17	50%	7%	5%	91%	38%	50%	7%	5%	50%	7%	5%	36%	50%	7%	5%	36%	34%	34%		
OLD SEED	500 ppm, 50% Emulsifier	99	98	89	92	100	100	95	95	1%	2%	11%	8%	6%	0%	0%	0%	0%	0%	3%	1%	0%	0%	0%	0%	1%	1%		
OLD SEED	1000 ppm, 5% Emulsifier	46	100	98	20	85	100	100	28	54%	0%	2%	80%	34%	0%	2%	80%	0%	0%	22%	20%	0%	0%	0%	22%	20%	20%		
OLD SEED	1000 ppm, 50% Emulsifier	93	88	82	90	99	94	95	93	7%	12%	18%	10%	12%	1%	6%	5%	1%	6%	5%	5%	7%	5%	7%	5%	3%	3%		

53%

NEW SEED
ANOVA: Single Factor

SIGNIFICANT DIFFERENCE @ 99%

OLD SEED
ANOVA: Single Factor

No Significance

SUMMARY		Groups	Count	Sum	Average	Variance
Row 1	NEW SEED	4	0.24	0.06	0.0072	
Row 2	NEW SEED	4	0.2	0.05	0.01	
Row 3	NEW SEED	4	0.94	0.235	0.1687	
Row 4	NEW SEED	4	0.25	0.0625	0.003225	
Row 5	NEW SEED	4	1.93	0.4825	0.13075633	
Row 6	NEW SEED	4	0.86	0.215	0.10036667	
Row 7	NEW SEED	4	2.7	0.675	0.12016667	

SUMMARY		Groups	Count	Sum	Average	Variance
Row 1	OLD SEED	4	0.08	0.02	0.0006	
Row 2	OLD SEED	4	0	0	0	
Row 3	OLD SEED	4	0	0	0	
Row 4	OLD SEED	4	1.45	0.3625	0.140225	
Row 5	OLD SEED	4	0.1	0.025	0.00083333	
Row 6	OLD SEED	4	0.87	0.2175	0.117225	
Row 7	OLD SEED	4	0.19	0.0475	0.000891667	

ANOVA		Source of Variation	SS	df	MS	F	P-value	F crit
		Between Groups	1.3890357	6	0.231508	2.96868628	0.0281763	2.5727118
		Within Groups	1.62125	21	0.077224			
		Total	3.0102857	27				

ANOVA		Source of Variation	SS	df	MS	F	P-value	F crit
		Between Groups	0.465643	6	0.077607	2.110372725	0.055145	2.572712
		Within Groups	0.778725	21	0.037082			
		Total	1.244368	27				

FIG. 10a

Chloropicrin EC - Lab Tests for Weed Seed Mortality

BINDWEED

Weed Seed: *Convolvulus arvensis*

Treatment Date = 10/28/1999

Number of Seeds/Dish = 100

Seed Age		Seed Germination Counts												(% Mortality)												% Mortality Above Control			
		Date of Count = 11/05/1999						Date of Count = 11/09/1999						Date of Count = 11/09/1999						Date of Count = 11/09/1999									
		Elapsed Time from Treatment = 8 Days						Elapsed Time from Treatment = 12 Days						Elapsed Time from Treatment = 12 Days						Elapsed Time from Treatment = 12 Days									
		Treatment						Treatment						Treatment						Treatment									
		Treatment Solution						Treatment Solution						Treatment Solution						Treatment Solution									
Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Mean	2nd Count at 12 Days
NEW SEED	Control 0 ppm, 0% Emulsifier	15	20	23	28	80	84	83	78	85	80	77	72	79	71	73	82	20	16	17	22	19	0%						
NEW SEED	0 ppm, 5% Emulsifier	16	22	23	14	29	29	27	18	84	78	77	86	81	81	71	71	73	82	74	56%								
NEW SEED	0 ppm, 50% Emulsifier	19	15	15	16	51	63	55	65	81	85	85	84	84	84	49	37	45	35	42	23%								
NEW SEED	500 ppm, 5% Emulsifier	12	16	14	7	54	63	55	65	88	84	86	93	88	89	46	37	45	35	41	22%								
NEW SEED	500 ppm, 50% Emulsifier	25	13	22	17	62	13	74	56	75	87	78	83	81	81	38	87	26	44	49	30%								
NEW SEED	1000 ppm, 5% Emulsifier	8	15	5	12	14	20	10	16	92	85	95	88	90	86	80	90	84	85	66%									
NEW SEED	1000 ppm, 50% Emulsifier	5	8	3	4	7	15	7	10	95	92	97	96	95	95	93	85	93	90	90	71%								
OLD SEED	Control 0 ppm, 0% Emulsifier																												
OLD SEED	0 ppm, 5% Emulsifier																												
OLD SEED	0 ppm, 50% Emulsifier																												
OLD SEED	500 ppm, 5% Emulsifier																												
OLD SEED	500 ppm, 50% Emulsifier																												
OLD SEED	1000 ppm, 5% Emulsifier																												
OLD SEED	1000 ppm, 50% Emulsifier																												

NEW SEED

Anova: Single Factor

SIGNIFICANT DIFFERENCE @ 99%

SUMMARY

Groups	Count	Sum	Average	Variance
Row 1	4	6.75	0.1675	0.00075833
Row 2	4	2.97	0.7425	0.00275833
Row 3	4	1.86	0.415	0.00438667
Row 4	4	1.83	0.4075	0.00391667
Row 5	4	1.26	0.4875	0.070625
Row 6	4	3.4	0.85	0.00173333
Row 7	4	3.51	0.8025	0.001425

ANOVA

Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	1.6960214	6	0.2815038	23.2487464	2.996E-08	3.8117491
Within Groups	0.254275	21	0.0121083			
Total	1.9422964	27				

FIG. 11a

% Mortality of New Weed Seeds Over Control Bindweed

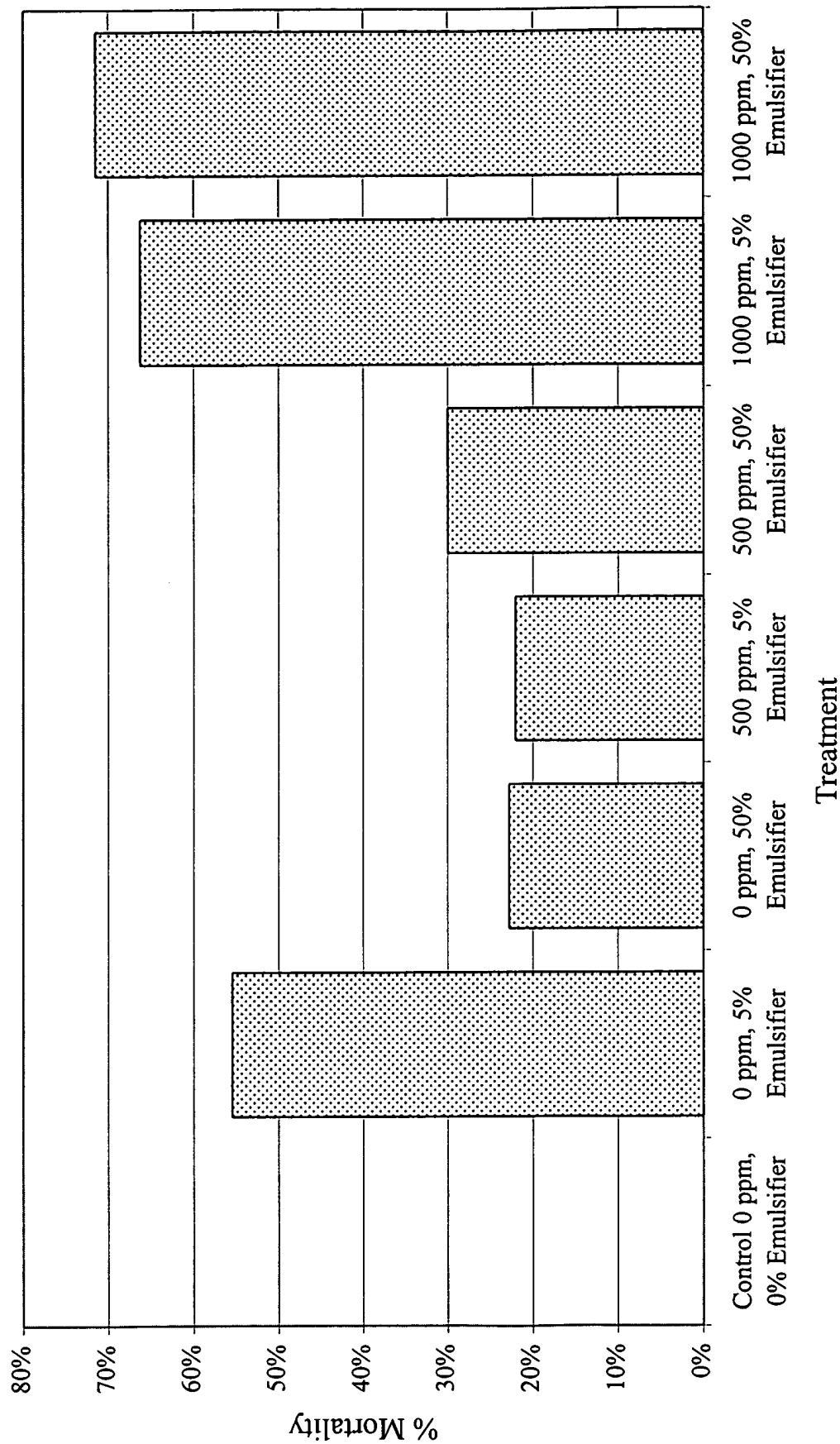


FIG. 11b